

INTERNATIONAL SEARCH REPORT

International Application No

PCT/IB2004/050669

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 H01L21/027 H01L29/06 G03F7/00 H01L21/20 H01L51/40
H01L21/311 H01L21/312 H05B33/10 H01L21/28

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H01L G03F H05B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 989 778 A (SEIKO EPSON CORP) 29 March 2000 (2000-03-29) paragraph '0081! - paragraph '0083! -----	1-22
X	US 6 416 886 B1 (GYOUTOKU AKIRA ET AL) 9 July 2002 (2002-07-09) figures 2B, 2C the whole document -----	1-19
P, X	EP 1 335 418 A (MAILE BERND E DR) 13 August 2003 (2003-08-13) Step 306 figure 3 -----	1-3, 6-10, 14-17



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

& document member of the same patent family

Date of the actual completion of the international search

17 September 2004

Date of mailing of the international search report

27/09/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Bader, K

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/IB2004/050669

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 0989778	A	29-03-2000	EP 0989778 A1	29-03-2000
			JP 3328297 B2	24-09-2002
			CN 1258428 T	28-06-2000
			WO 9948339 A1	23-09-1999
			JP 2000353594 A	19-12-2000
			JP 2002334782 A	22-11-2002
			JP 2002372921 A	26-12-2002
			TW 439389 B	07-06-2001
US 6416886	B1	09-07-2002	JP 11121178 A	30-04-1999
EP 1335418	A	13-08-2003	EP 1335418 A1	13-08-2003
			US 2003153178 A1	14-08-2003